

Drying Center—Technical Information

MCE/MCG8000A*

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16022785 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.



CAUTION

All safety information must be followed as provided in Service Manual 16022785.



WARNING

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UPPER DRYING CABINET

Capacity (cu. ft.)	17.3
Controls	LED
Drying System	BreezeCare™
C.F.M.	80
Cycles	2
Dry Wet Clothes	•
Refresh Dry Clothes	•
Options	3
Add Fragrance	•
Remove Odor	•
Wrinkle Release	•
Temperature Settings	2
Low	140° F
Extra Low	110° F
Interior Cabinet Light	•
ShapeSaver™ Hangers	•
Flat Dry Shelves	5
Steam Water Bottle	•
Adjustable Time	30 min. to 6 hrs.
End-Of-Cycle Signal	Adjustable
Time Remaining Indicator	•
Cycle Status Indicator	•
WrinkleRelease™ Rod	Yes, with 9 slots
Dryer Sheet Caddy	•
Accessory Hooks	4
Sound Silencing Package	EQ Plus
Color Availability	W, Q

LOWER TUMBLE DRYER

Capacity (cu. ft.)	7.0
Controls	LED
Drying System	GentleBreeze™
C.F.M.	170
Cycles	4
Sensor Dry	•
Time Dry	•
Air Fluff	•
Wrinkle Release	•
Options	2
Wrinkle Prevent	•
Damp Dry Signal	•
Temperature Settings	4
Regular	150° F
Medium	145° F
Low	140° F
Extra Low	125° F
Dryness Control	IntelliDry
Adjustable Dryness Level	4
Very Dry	•
More Dry	•
Normal Dry	•
Damp Dry	•

Interior Cabinet Light	•
End-Of-Cycle Signal	Adjustable
Time Remaining Indicator	•
Cycle Status Indicator	•
Drum Light	•
Reversible Door	Yes
DuraCushion Dryer Drum	•
Four Point Suspension	•

MODEL MCE/MCG8000



DRYING CENTER SPECIFICATIONS

Uncrated Dimensions: 33½"W x 29"d x 74"h
 Crated Dimensions: 36.8"W x 31.3"d x 76.3"h
 Uncrated Weight: 245 lbs.
 Crated Weight: 260 lbs.

Troubleshooting



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Will Not Run

Will not start or run:

- All wires are hooked up to their corresponding terminals.
- Dryer is plugged in.
- Blown fuse or circuit breaker.
- Door switch functional...door closed.
- Poor connection between membrane switch and logic board, or faulty membrane switch. Use "Pd" utility to check function of membrane switch.
- Faulty motor relay, use diagnostic utilities to manually operate relay.
- Drive motor functional.
- Blown thermal fuse.

Motor runs/Tumbler will not turn:

- Belt off or broken/damaged.
- Idler tension spring too weak or stretched.
- Idler pulley jammed or stuck.

Runs a few minutes and then stops:

- Lint buildup around drive motor.
- Low voltage present.
- Blower impeller blocked in blower housing.
- Drive motor - start switch contacts stuck closed.

Blows fuses or trips circuit breaker:

Electric Models

- The amperage readings are at 240 volts. One line with 24 amps, and the other line with 21 amps. The neutral line will be at 3 amps. If the above amperages are present, then the house wiring, fuse box or circuit breaker should be suspected.
- Shorted heating element to housing.
- Incorrect wiring or a wire shorting to ground.
- Drive motor winding shorting to ground.

Gas Models

- During ignition the dryer will draw 7 amps. With the burner ON, the dryer will draw 3 amps. If the dryer is drawing amperages above this, then the house wiring, fuse box or circuit breaker is suspected to be at fault.
- Igniter harness loose and shorted to base.
- Incorrect wiring or wire shorted to ground.
- Open centrifugal switch in motor.
- Drive motor winding shorting to ground.

Will Not Dry

Will not heat (motor runs):

- Open heating element.
- Hi-Limit trips easily or is open.
- Faulty Thermistor.
- Faulty Heater Relays.
- Drive motor centrifugal start switch not allowing voltage to gas valve or heating element.

Will Not Dry (Gas Models)

Poor Gas Ignition

When the dryer is operated on a heat setting, the igniter should be energized and burner shall fire within 45 seconds at 120 VAC. The failure of a component in this system will usually be indicated by one of three symptoms:

The igniter does not glow. If the igniter does not heat up, remove power and using an ohmmeter, check the following:

- Open flame sensor
- Open igniter
- Shorted booster coil
- Open wiring

Igniter glows - No gas ignition. If the igniter heats up but the main burner flame is not ignited, remove power and using an ohmmeter, check the following:

- Open secondary coil
- Open holding coil
- Open wire harness

The gas is ignited but the flame goes out. If a normal ignition takes place and after a short while the flame goes out, check for the following:

- Radiant sensor contacts opening prematurely.
- Weak gas valve coil may open when stressed by higher temperatures.

Improper drying/clothes wrinkled/ rough texture/long dry time:

- Lint filter is not clean.
- Restriction in exhaust.
- Outside exhaust hood damper door stuck closed.
- Exhaust too long, too many elbows, flex ductwork installed.
- Poor makeup air available for the dryer.
- Incorrect tumbler speed. Tumbler belt slipping.
- Blower impeller bound; check for foreign material in blower area.
- Customer overloading dryer.
- Check clothing labels for fabric content and cycle selected.
- Gas valve coil opens - weak point in coil opens when stressed under heated conditions.
- Clothes too wet due to insufficient spin out by washer.
- Faulty Sensor Bar. See Sensor Bar diagnostic section.

Component Testing Procedures



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Troubleshooting the Sensor-Dry circuit:

- Check for incorrect wiring of the electrical connector at the electronic control board.
Dryer runs for 2 minutes, jumps to a 1-minute cool down and then stops. Open Sensor Dry circuit. Check Sensor Bar. Refer to Sensor Bar Diagnostics section.
- Dryer does not shut off. Check sensor for continuity. If found, replace sensor bar or clean with alcohol. Some fabric softener sheets will coat the sensor bars.

Noisy and/Or Vibration

- **Thumping.** Check for loose tumbler baffle, rear tumbler roller(s) worn or misaligned, out-of-round tumbler or high weld seam on tumbler.
- **Ticking.** Check for loose wire harness or object caught in blower wheel area.
- **Scraping.** Check for front or rear bulkhead felt seal out of position or worn tumbler front bearings.
- **Roaring.** Check for blower wheel rubbing on blower housing or bad motor bearings.
- **Popping or squealing sound.** Check for a sticky or frayed belt.

System Check Mode

The Diagnostic State provides a set of utilities not intended for use by the consumer. Diagnostic State utilities provide specialized functions for performance evaluation and service. Upon recovery from a power failure, the Drying Cabinet always returns to the Normal-program State. Any Diagnostic State utility active prior to the power failure is effectively cancelled.

To enter the Diagnostic State from the Normal Program State on the upper or lower dryer half of the keypad, press the **Signal (+)** button and **Time Adjust ^** simultaneously for five (5) seconds. Upon entry to the Diagnostic State, the corresponding 7-segment display shows "**dd**". Attempts to enter the Diagnostic State while a dryer cycle is active causes the invalid selection chime to sound.

After 10 minutes of inactivity the diagnostic state will be canceled, and the machine will return to normal operation. To exit the Diagnostic State, press the **Signal (-)** button.

Either half of the keypad may be used to request the Diagnostic State. Once initiated, all key entries must be made from the same half of the keypad. The LED indicators and 7-segment displays on the remaining half of the keypad are extinguished. Any key presses to the

unused portion of the keypad are ignored and sound the invalid selection chime.

Note: Pressing the **Off** button exits the Diagnostic State and places the control board in the Sleep State.

Diagnostic State Menu

Enter a menu item by using the **Time Adjust ^** or **▼** arrows to see the letter code desired and press **Signal (+)**.

NOTE: * indicates a submenu with further explanation given below.

Menu	Description
dd	Beginning of Diagnostic State Menu
cc	Factory Use Only
cd	Clear Diagnostic Codes
ch	Clear Help Codes
*****cS	View Cycle Counts
****dL	View Diagnostic Code List
FS	Factory Use Only
hL	View Help Code List
Lo	Logic Board Output Self-test (Display will show "PASS" "PASS" or "FAIL" "FAIL")
pc	Factory Use Only
*Pd	Membrane Key Pad Utility
**rd	Read Sensor Inputs
***Sc	Sub-system Check
SF	Software Version
rS	Reset to Factory Default Conditions

**rd Read Sensor Inputs

This utility allows the user to enable or disable the display of sensor input values. Once enabled, the user exits the Diagnostic State and the 7-segment display used to make the selection alternates between the sensor value and the time remaining. All other features operate as normal. It is not necessary to start a cycle for the sensor value to begin displaying. The user may display lower dryer values on the upper dryer half of the keypad with the converse also allowed.

After exiting the Diagnostic State with the sensor display function enabled, the 7-segment display continuously cycles through a 4-step sequence. Each step lasts 1.5 seconds. The sequence consists of the following:

"n=" appears, to indicate that the next value is the time remaining. The time remaining value appears on the display.

Component Testing Procedures



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“xx=” appears to indicate that the next value is from the selected sensor. Where “xx.xx” is the item selected from the sensor display menu. The sensor value appears on the display.

Example:

- 1) To read measured temperature, scroll to “rd” on the menu and press **Signal (+)**.
- 2) Upon entry to the utility, “OFF” appears on the display.
- 3) Using the **Time Adjust ▼** arrow button scroll to “Ld” menu item from the Table.

Note: To exit the utility before running a test, press **Signal (-)**. The display will show “rd”. To exit diagnostics press, **Signal (-)** again. The display will show “dd”.

- 4) Press **Signal (-)** twice to initiate the menu item.
- 5) Time and Temperature are displayed.
- 6) Press “OFF” to exit the test.

Sensor Display Menu

Menu	Description	Displayed Value
OFF	Sensor display disabled	NA
Ld	Lower Dryer Outlet Temperature	Degrees Fahrenheit
Ud	Upper Dryer Outlet Temperature	Degrees Fahrenheit
uS	Upper Dryer Door Switch	On or OFF (On = door open)
LE	Lower Dryer Heater Energized	On or OFF (On = energized)
LS	Lower Dryer Door Switch	On or OFF (On = door closed)
****db	Lower Dryer Sensor Bar	On or OFF (On = hit detected)
SP	Spare Thermistor Input	Degrees Fahrenheit

*Pd Membrane Keypad Utility

To select the Membrane Keypad utility, scroll to “Pd” on the menu and press **Signal (+)**.

Upon entry to the utility, all LED indicators and 7-segment display LED elements illuminate. Pressing each key extinguishes one or more of the keypad indicators or 7-segment display LED elements. All the keys must function properly to extinguish all the LED elements. The LED extinguished may not be adjacent to the keypad pressed. Do not press **Signal (-)** or you will exit the utility.

To exit the utility and return to the menu, press **Signal (-)**. Upon return to the Main Menu, display shows “Pd”. To check Membrane Pad with ohm meter see chart.

***SC Upper and Lower Dryer Sub-system Check Utilities

To view the Sub-system Check Utility menu, scroll to “Sc” on the main menu and press **Signal (+)**.

To exit the Sub-system Check Utility Menu and return to the Main Menu, press **Signal (-)** at any of the menu items. Upon return to the Main Menu, “Sc” appears on the display.

Upon entry to the Sub-system Check Utility Menu, “SU” appears on the display.

Sub System Check Menu

Menu	Description
Su	Beginning of Menu
bo	Operate Upper Dryer Blower Motor
Fd	Operate Lower Dryer Motor
hr	Operate Upper Dryer Heater and Blower (Temp displayed opposite side)
hh	Operate Lower Heater and Blower at High Wattage (Temp displayed opposite side)
hL	Operate Lower Heater and Blower at Low Wattage (Temp displayed opposite side)
So	Operate Upper Dryer Shaker Motor
ho	Operate Upper Dryer Blower, Heater and Water Valve
d1	Unused
d2	Unused

Diagnostic Codes:

The diagnostic/help code information displayed provides information about the machine. Any abnormalities monitored by the board will be identified as either a Help or Diagnostic code. Diagnostic Codes will be logged and stored in permanent memory (maximum nine in the list). A Diagnostic Code is logged when there is a problem with the system. It may be recommended the machine be serviced.

Software checks for open or shorted thermistors and door switch failures only during active cycles. Software continuously checks for stuck button conditions.

“Stuck Button” fault detection uses the lower dryer cycle count when logging a diagnostic code. Fault detection logs a code once after initially detecting a fault. A fault must clear before logging additional occurrences.

****dL Accessing Diagnostic Codes

To view the Diagnostic Codes List, scroll to “dL” on the menu and press **Signal (+)**. Upon entry to the utility, “SOL” appears on the display indicating start of list.

Component Testing Procedures



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Use the **Time Adjust ▲** (up arrow) and **Time Adjust ▼** (down arrow) buttons to step through the list. The display shows “End” after the last entry in the list is reached. Attempts to step past the beginning or end of the list will cause the invalid selection chime to sound.

cd To select the Clear Diagnostic Codes utility, scroll to “cd” on the menu and press **Signal (+)**.

Upon entry to the utility, “cL” appears on the display. Press **Signal (+)** again to clear all Diagnostic Codes for both the upper and lower dryer. The message “AC” appears on the display to indicate All Clear after the clear function completes.

To exit the utility and return to the menu, press **Signal (-)**. Upon return to the Main Menu, “cd” appears on the display.

Diagnostic Codes

rS Reset to Factory Default Conditions

Code	Description	Trigger	Action Taken
SOL	Start of list		
1	Lower Dryer Thermistor Short Sensed	If temperature > 200 degrees for 2 minutes.	<u>Check for:</u> - Clogged lint screen. - Restricted vent system. Failed thermistor
2	Lower Dryer Thermistor Open Sensed	If the temperature is low with an increase of temperature expected, and no increase occurring after 3 minutes.	<u>Check for:</u> - Low ambient temperature in room (Below 50°F/10°C). - Outside vent damper is stuck open in wintertime. Loose or open wire terminals
3	Lower Dryer Door Circuit Failure	Low for more than 1 second.	<u>Check for:</u> - Loose or open wire terminals in Door Sense circuit.
4	Not Used		
5	Not Used		
6	Non Volatile Memory	Problem Detected with integrity of parameters stored in EEPROM memory.	Disregard
8	Stuck Button	A button sensed as pressed more than 75 seconds, is assumed as stuck.	<u>Check for:</u> - Run membrane pad check and replace console w/membrane pad if necessary.
9	Not Used		
10	Not Used		

Code	Description	Trigger	Action Taken
11	Upper Dryer Thermistor Short Sensed	If temperature > 200 degrees for 2 minutes.	<u>Check for:</u> - Failed hi-limit thermostat on steamer. - Failed thermal fuse on heater. Failed thermistor
12	Upper Dryer Thermistor Open Sensed	If the temperature is low with an increase of temperature expected, and no increase occurring after 3 minutes.	<u>Check for:</u> - Low ambient temperature in room (Below 50°F/10°C). - Check door vent seals. Loose or open wire terminals on steamer circuit.
13	Upper Dryer Door Circuit Failure	Low for more than 1 second.	<u>Check for:</u> - Loose or open wire terminals

To restore Factory Default settings for the dryer controls, complete the following sequence within one (1) minute.

- Step 1 From the Normal Program State, press the **Signal (+)** button and **Time Adjust ▲** to enter the Diagnostic State from the upper or lower dryer keypad.
- Step 2 Scroll to the “rS” display on the menu and press **Signal (+)**. The number “004” appears on the display to indicate the number of remaining steps needed to complete the reset sequence.
- Step 3 **Open** and leave open the **Lower Dryer Door**. The remaining step count decrements to “003” on the display.
- Step 4 Press the **Time Adjust ▲** and **Time Adjust ▼** at the same time. The remaining step count decrements to “002” on the display.
- Step 5 Press the **Temperature ▲** and **Time Adjust ▼** at the same time. The remaining step count decrements to “001” on the display.

Step 6 **Close** the **Lower Dryer Door**. The remaining step count decrements to “000” once the Factory Default settings have been restored. The "Power On Reset" sequence then executes.

The remaining step count resets to (4) and the invalid selection chime sounds when any of the following conditions occur:

- A reset step is performed out of sequence.
- An unexpected key combination is entered.
- The time window expires.

Component Testing Procedures



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Opening the door to complete the first step marks the beginning of the time window.

This function does **not** clear either of the upper or lower dryer cycle counters. All other parameters stored in non-volatile memory are returned to the Factory Default values.

The Reset Utility functions the same regardless of which half of the keypad it is initiated from. Once the utility is initiated, all key combinations must be made from the same half of the keypad used to initiate the utility.

The **Signal (-)** key exits the Reset Utility and returns to the **"rS"** display on the main menu. Pressing the **Signal (-)** key any time prior to completion of the reset sequence cancels the sequence and then returns to the main menu.

*****db Sensor Bar Diagnostics

Enter The Diagnostic Utilities Menu

- 1) The controls will not enter the Diagnostic State if a cycle is active or paused for either dryer. Push the **Off** key to cancel an active or paused dryer cycle. Push **Time Adjust ▲** and **Signal (+)** for 5 seconds. **"dd"** appears in the display.
- 2) Use **Time Adjust ▲** and **Time Adjust ▼** to scroll through the utility menu.
- 3) Scroll to **"rd"** and push **Signal (+)** to enter the sensor display menu. **"OFF"** appears on the display to indicate an input sensor has not been selected yet for the Read Sensor Display Function.
- 4) Use **Time Adjust ▲** and **Time Adjust ▼** to scroll through the input sensor menu.
- 5) Scroll to **"db"** to select the Dryness Bar input for display.
- 6) With **"db"** shown on the display, exit the input sensor menu by pushing **Signal (-)**. **"rd"** appears in the display.
- 7) Push **Signal (-)** again to exit the diagnostic utility menu and view the sensor bar status.
- 8) The Display cycles **"n=x:xx"**, then **"db = On"** with a short across the dryness bars or **"db = OFF"** with an open circuit between the dryness bars.
- 9) The dryer may be operated as normal with the Read Sensor Display active. The **"n=x:xx"** portion of the alternating display is the normal time remaining value for the dryer display.
- 10) The display shows **"db = On"** when damp clothing makes contact with the sensor bars.
- 11) Either half of the membrane switch may be used to display any input with the Read Sensor Display Function. The half of the membrane switch used to

enable the Read Sensor Display function also determines where the sensor display appears.

Cancel the Read Sensor Display Function

- 1) Push the **Off** key for the upper dryer to place the upper dryer controls in the Sleep State. The Sleep State extinguishes all the LED indicators and numerical displays.
- 2) Push the **Off** key for the lower dryer to place the lower dryer controls in the Sleep State.
- 3) Placing both upper and lower dryer controls in the Sleep State cancels the Read Sensor Display Function.

Codes Visible To The Consumer.

The following help codes could appear on the display and may need further investigation.

- 1) **"PF"** A power failure occurred during an active or paused cycle. Consumer may push the **"Start/Pause"** key to resume the interrupted cycle or push the **"Off"** key to cancel the interrupted cycle and start over with a new cycle.
- 2) **"HP"** The thermistor reading is out of range and the dryer cycle is interrupted. Consumer may push the **"Off"** Key and attempt to run the cycle again. If the condition persists, a service technician should check for a thermistor malfunction or a wiring problem with the thermistor circuit. **Service Technician** view the Diagnostic Codes and look for code 1 or 2. See Diagnostic Codes chart.
- 3) **"h1"** A temperature increase has not been detected on the lower dryer and the dryer advances to Cool-down. Consumer may check for a blocked vent. **Service Technician** check for heater not functioning, blocked vent, cool air leaking into drum, poor seal between drum and blower, bad connection on igniter sense signal to control board, thermistor malfunction.
- 4) **"h11"** A shaker assembly neutral fault has been detected. Shaker relay is de-energized and the cycle continues as normal without the shaker. **Service Technician** check for a bad connection in neutral circuit to the shaker assembly.



"Wrinkle Prevent" This is not a fault code but a normal operation signal. During the Wrinkle Prevent phase of the cycle, the output animation shows 1 segment moving around the perimeter of the display. During the continuous tumble portion of Wrinkle Prevent, the animation is constant. After 20 minutes of continuous tumble, the Wrinkle Prevent intermittent phase begins where the dryer tumbles for 10 seconds out of every 5-minute interval. During this phase the display shows the segment moving, and stopping momentarily. This pattern continues until the Wrinkle Prevent phase ends.

Component Testing Procedures



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Membrane Pad Continuity Checks

Enter a menu item by pressing **Signal (+)**.

cS*****View Cycle Statistics

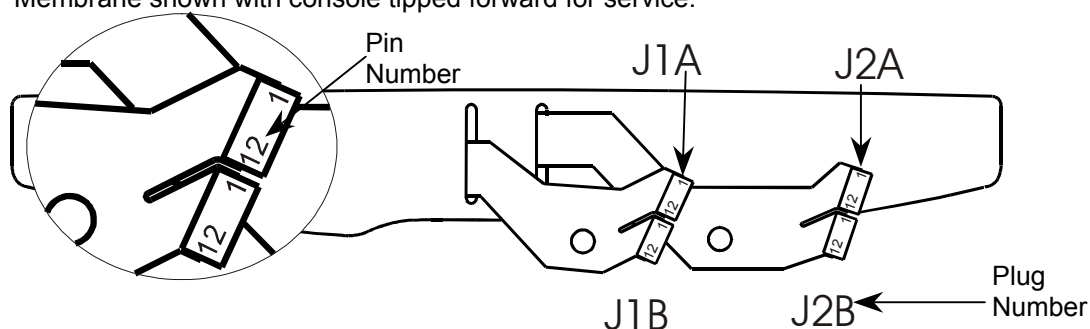
To view the Cycle Statistics scroll to "cS" the menu and press **Signal (+)**.

Upon entry to the utility "cu" appears indicating beginning of menu. Scroll to the menu item you want to view by pressing **Time Adjust ▲** or **Time Adjust ▼**.

Membrane shown with console tipped forward for service.

Cycle Statistics Menu

Menu	Description
cu	Beginning of Menu
Lc	Lower Dryer Cycle Count
Lh	Lower Dryer Cycle Hours
Uc	Upper Dryer Cycle Count
Uh	Upper Dryer Cycle Hours



Location	Description	Plug Number	Pin Number
Upper Dryer Cycle Selection	Dry Wet Clothes	J2B	7,10
Upper Dryer Cycle Selection	Refresh Dry Clothes	J2B	5,10
Upper Dryer Temp. Selection	Up Arrow	J2B	7,9
Upper Dryer Adjust Drying Time	Increase Time	J2B	8,12
Upper Dryer Adjust Drying Time	Decrease Time	J2B	7,12
Upper Dryer Options	Wrinkle Release	J2B	7,11
Upper Dryer Options	Remove Odor	J2B	6,11
Upper Dryer Options	Add Fragrance	J2B	5,11
Upper Dryer Commands	Start/Pause	J2B	6,12
Upper Dryer Commands	Off	J2B	5,12
Lower Dryer Cycle Selection	Sensor Dry	J1B	5,12
Lower Dryer Cycle Selection	Time Dry	J1B	6,12
Lower Dryer Cycle Selection	Wrinkle Release	J1B	7,12
Lower Dryer Cycle Selection	Air Fluff	J1B	8,12
Lower Dryer Temp. Selection	Up Arrow	J1B	7,9
Lower Dryer Adjust Drying Time	Up Arrow	J1B	5,9
Lower Dryer Adjust Drying Time	Down Arrow	J1B	6,9
Lower Dryer Options	Wrinkle Prevent	J1B	5,10
Lower Dryer Options	Damp Dry Signal	J1B	6,10
Lower Dryer Commands	Start/Pause	J1B	5,11
Lower Dryer Commands	Off	J1B	6,11
Audible Signal Volume	Decrease Volume	J1B	8,11
Audible Signal Volume	Increase Volume	J1B	7,11

Component Testing Procedures



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Logic Board Connectors

Connector Name	Pin Number	Description	Voltage	Comment/ Connector Part Number
J1A	1-12	Left Keypad connector A	12 VDC	
J1B	1-12	Left Keypad connector B	12 VDC	
J2A	1-12	Right Keypad connector A	12 VDC	
J2B	1-12	Right Keypad connector B	12 VDC	
J3	1	Lower dryer thermistor	5 VDC	
	2	Lower dryer thermistor	5 VDC	
	3	Lower dryer moisture sensor	24 VDC	
	4	Lower dryer moisture sensor	24 VDC	
	5	Spare thermistor source	5 VDC	
	6	Spare thermistor return	5 VDC	
	7	Upper exhaust air thermistor	5 VDC	
	8	Upper exhaust air thermistor	5 VDC	
J4	1	L1 to upper door switch	120 VAC	
	2	Upper door switch to Lamp	120 VAC	
	3	Chassis ground to logic board	Ground	
J6A	1	12 VDC power	12 VDC	DC connections to Power & Relay Board.
	2	Power Supply Common	Common	
	3	24 VDC power	24 VDC	
	4	To shaker motor relay coil	12 VDC	
	5	To upper blower motor relay coil	12 VDC	
	6	To upper heater relay coil	12 VDC	
	7	To water valve relay coil	12 VDC	
	8	To spare relay coil	12 VDC	
	9	To upper exhaust damper relay coil	12 VDC	
	10	To lower heater cycling relay coil	12 VDC	
	11	To lower heater center-tap relay coil	12 VDC	
	12	To lower dryer motor relay coil	12 VDC	
J10	1	VCC from logic board	5 VDC	
	2	Serial transmit signal	5 VDC	
	3	Serial receive signal	5 VDC	
	4	Serial signal common	DC GND	
J10A	1	DC common	DC GND	
	2	Reset Signal	5 VDC	
	3	Serial transmit signal for logic board	5 VDC	
	4	VCC from logic board	5 VDC	
	5	Serial receive signal for logic board	5 VDC	
	6	VPP from programmer box		

Component Testing Procedures



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Connector Name	Pin Number	Description	Voltage	Comment/ Connector Part Number
J11A	1	L1 for use on logic board	120 VAC	120 VAC connections to power & relay board.
	2	Upper door switch power to lamp	120 VAC	
	3	Lower door switch signal	120 VAC	
	4	Gas igniter sense signal	120 VAC	
	5	Neutral for switched 120 VAC signals	120 VACN	

Relay Header Connections

Relay Name	Connector Name	Description	Voltage
K9	NO	L1 to relay	120 VAC
	COM	L1 to lower dryer motor	120 VAC
K8	NO	L1 to relay	240 VAC
	COM	L1 to lower dryer heater center tap	240 VAC
K7	NO	L1 to relay	240 VAC
	COM	L1 to lower dryer	240 VAC

Power and Relay Board Connectors

Connector Name	Pin Number	Description	Voltage
J5	1	L1 to shaker motor	120 VAC
	2	L1 to upper cabinet lamp	120 VAC
	3	Neutral to shaker & lamp assembly	120 VACN
	4	Unassigned	
J6B	1-12	See J6A in Logic Board Connectors Table	5 & 12 VDC
J7	1	Neutral to Power & Relay Board	120 VACN
	2	L2 to Power & Relay Board	120 VAC
	3	Gas Igniter Sense	120 VAC
	4	Lower Door Switch	120 VAC
	5	L1 to Power & Relay Board	120 VAC

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Connector Name	Pin Number	Description	Voltage
J9	1	Relay to upper blower motor	120 VAC
	2	Unassigned	
	3	Unassigned	
	4	Unassigned	
	5	Relay connects upper heater to L2	120 VAC
	6	Unassigned	
	7	Spare relay output	120 VAC
	8	Relay to water valve	120 VAC
	9	Unassigned	
	10	Relay connects upper heater to L2	120 VAC
J11B	1-5	See J11A in Logic Board Connectors table	120 VAC

Note: VACN is the neutral wire of a 120V supply.

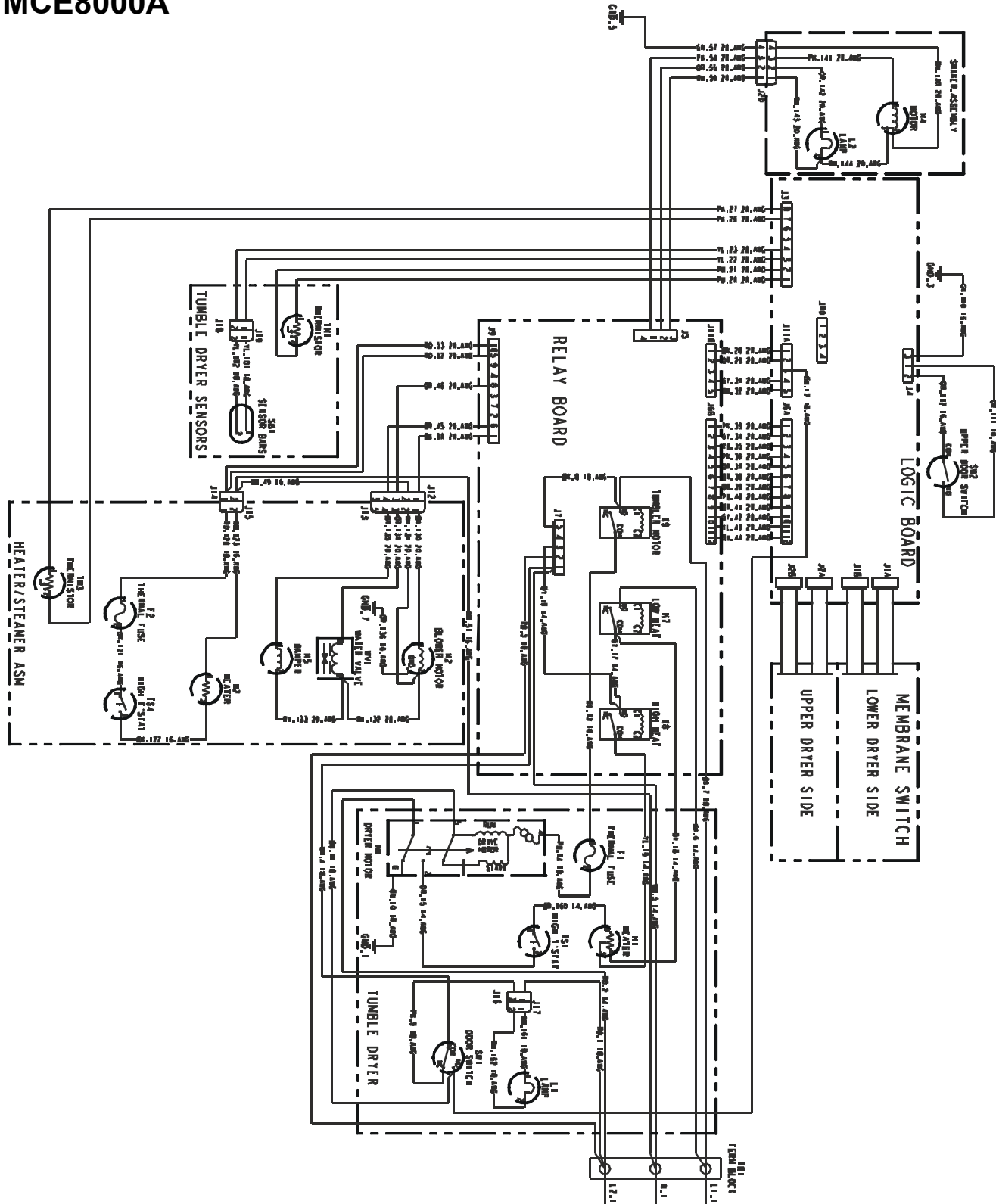
Wiring Diagram and Schematic



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.

MCE8000A



Wiring Diagram and Schematic



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and or shut off gas supply before servicing, unless testing requires power.

MCG8000A

